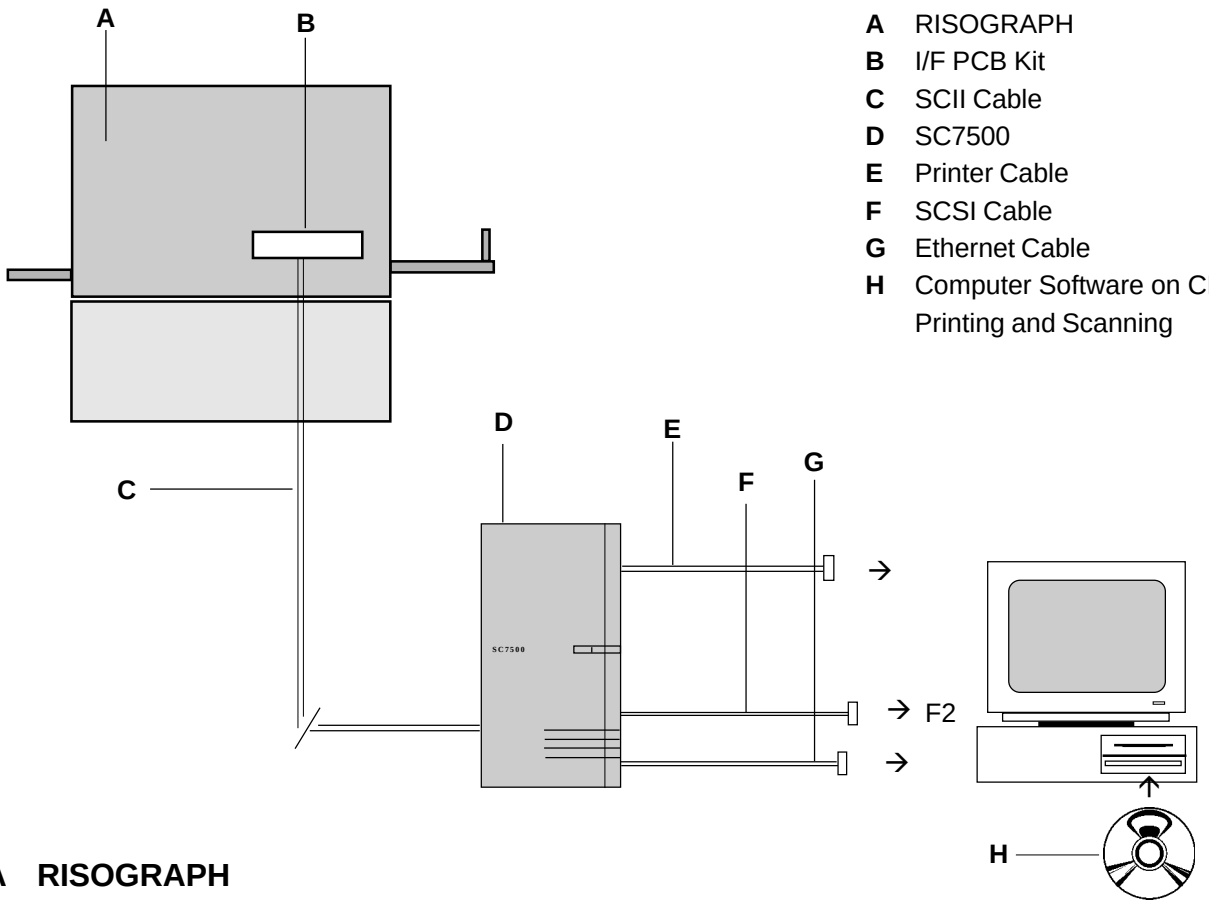
SECTION 3 System Overview

Contents

1. Connection Overview 1
2. SC7500 Rear Panel 4
3. SC7500 Front Panel 6

SYSTEM OVERVIEW

1. CONNECTION OVERVIEW



A RISOGRAPH
B I/F PCB Kit
C SCII Cable
D SC7500
E Printer Cable
F SCSI Cable
G Ethernet Cable
H Computer Software on CD for Printing and Scanning

A RISOGRAPH

A SC7500 compatible RISOGRAPH model

B I/F PCB Kit (supplied separately)

The correct I/F PCB kit must be used for the RISOGRAPH model. When the kit is installed there is an external connector at the rear of the RISOGRAPH for connection to the SC7500.

C SC II Cable (Supplied)

A 10 m video cable for connection between the SC7500 and RISOGRAPH.

This special cable carries print data to the RISOGRAPH, scan data to the SC7500, print and scan commands to the RISOGRAPH and RISOGRAPH status information to the SC7500.

D SC7500 (supplied)

The SC7500 Unit

E Printer Cable: Parallel Cable (supplied) or Serial Cable (not supplied)

The Parallel cable supplied is a D25 m-m 1:1 IEEE 1284 twisted cable for connection of the SC7500 to a standard PC printer port. This is an IEEE 1284 compliant cable. Parallel connection is recommended when using a single PC.

A Serial cable can also be used to print or send instructions to the SC7500. The Serial cable is not supplied but should have a 9 pin D type socket at the SC7500 end. For more information on connecting to a PC see the Technical Administration Manual.

Both the Parallel and Serial connection will allow bidirectional communication if supported by the PC and the operating system.

F SCSI Cable (not supplied)

Necessary for scanning. Transfers scan commands to the SC7500 and scan data and status to the computer. Connected to the SC7500 via 50 pin high density connector.

F2 Computer SCSI Connection (for scanning)

The SCSI cable from the SC7500 SCSI port should be connected to a SCSI port on the computer which will be used for scanning.

In the case of Macintosh a SCSI port is supplied with the Macintosh as standard. In the case of a non Macintosh PC more usually a SCSI card must be installed (not supplied), along with an ASPI driver (software normally supplied with the card). For more information on the requirements of the SCSI connection see the Technical Administrators Manual.

G Ethernet Cable (not supplied)

An Ethernet cable is used for connection to a network or to a Macintosh (EtherTalk). EtherTalk provides bidirectional communication. The connector type at the SC7500 end should be either RJ45, BNC or AUI. If RJ45 or AUI cabling is used to connect one Macintosh to the SC7500 without using a network hub then a 'crossover' cable must be used. BNC cables require special termination.

For more information on connecting to a Macintosh or Network see the Technical Administrators Manual.

H Computer Software for Printing and Scanning

Printer Drivers (supplied - see below) are required for printing and should be installed on each computer that will be used for printing. Utility software should be installed on every computer which is used for any of the following functions:

- set up of the SC7500
- customising SC7500 defaults
- reconfiguration of SC7500 settings
- Downloading of PS files
- checking the SC7500 set up status (with bidirectional connection only)
- maintaining the SC7500 hard disk and RAM contents
- managing temporary and permanent resident fonts (in the SC7500 hard disk and RAM) including downloading, deleting and displaying (printouts, and displaying on screen if bidirectional connection used).
- troubleshooting including printing out test pages.

For more information on the use of the utility software see the Technical Administrators Manual.

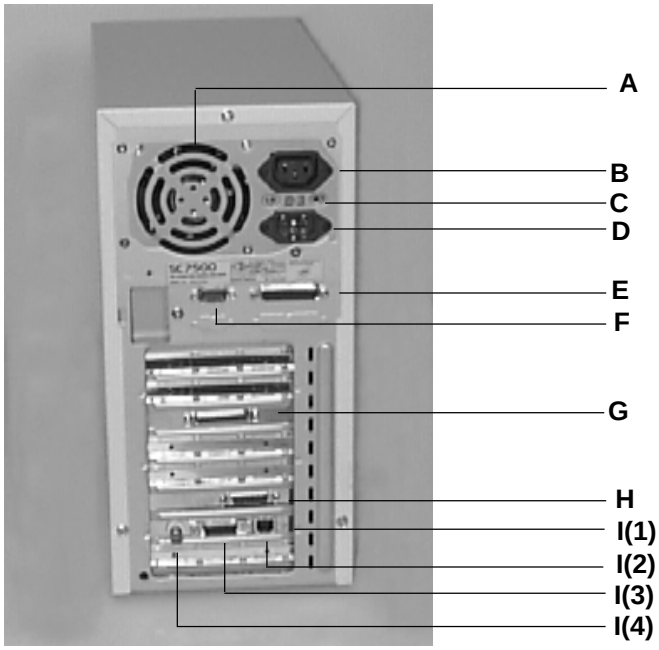
Scanning software should be installed on the computer which will be used to control and receive scan data. Only one computer can be used for this function and it must be the one with the SCSI connection to the SC7500. For more information on the installation of the above software see the Technical Administrators Manual.

For a summary of the software supplied see the table below.

SOFTWARE SUPPLIED

Operating System	PCL Driver	PS & PPDs	INF & PPDs	Print Utility	TWAIN Driver	Scan Utility	Comments
DOS				SC7500		SC7500	
Windows 3.1X	SC7500	SC7500		SC7500	SC7500	SC7500	
Windows95	SC7500	SC7500		SC7500	SC7500	SC7500	
Windows NT 4	SC7500		SC7500	SC7500	SC7500	SC7500	
Macintosh system 7 (7.1 and above)		SC7500		SC7500	SC7500		
Comments	HP LaserJet III or 4V Emulation	Adobe PS Driver	Use PS Driver Supplied by OS			Scan multiple TIFF files to disk	

2. SC7500 REAR PANEL



A Fan vent
B Power output
C Power selector
D Power input
E Parallel input
F Serial input
G SCSI connection
H RISOGRAPH connection

Network/Macintosh connections

I(1) RJ45 LED
I(2) RJ45 Port
I(3) AUI Port
I(4) BNC Port

A Fan Vent

There are several air venting holes around the SC7500 covers of which this is the main outlet.

⚠ Caution: All surfaces of the SC7500 should be kept clear and space allowed for unrestricted airflow.

B Power Output

This power output should not be used.

C Input power Selector

This can be set to 230 V or 115 V. This should be checked before connecting power and should be set to:

115 V setting for input voltage range 100 V - 125 V
230 V setting for input voltage range 200 V - 240 V

⚠ Caution: Check that this switch is set correctly before connecting power to the SC7500.

D Power Input

For connection of power to the SC7500 use a connector (supplied) similar to that used for a computer.

Caution:

- ensure that power connection confirms to local safety standards
- ensure the input power selector is correctly set before connecting (see above)
- do not connect power if any of the covers are damaged or are not fixed correctly - seek technical advice.
- do not connect power if the unit is wet
- isolate power if the unit makes abnormal noise or emits fumes or odours - seek technical advice.

E Parallel Port

A 'D' type 25 pin plug for connection using a Parallel cable (supplied) to the LPT port (parallel port) of the computer

F Serial Port

A 'D' type 9 pin receptacle for connection using an RS 232 Serial cable (not supplied) to the COM port (serial port) of the computer.

G SCSI Connection (for scanning)

A SCSI II 50 pin high density connector for connection using a SCSI cable (not supplied) to the SCSI port of the computer for scanning. The SC7500 should be at the end of any SCSI chain and terminator resistors are installed as standard internally in the SC7500. For more information on the SCSI port characteristics please see the Technical Administrators Manual.

H RISOGRAPH Connection

For connection of the SC7500 to the RISOGRAPH's Interface PCB port (supplied separately) using the 10 m SC II cable (supplied).

I Network/Macintosh connections

Ethernet connectors for connection to an Ethernet network, or a Macintosh or Macintosh EtherTalk network. The SC7500 automatically detects which connection is used, but only one connection may be used at any one time.

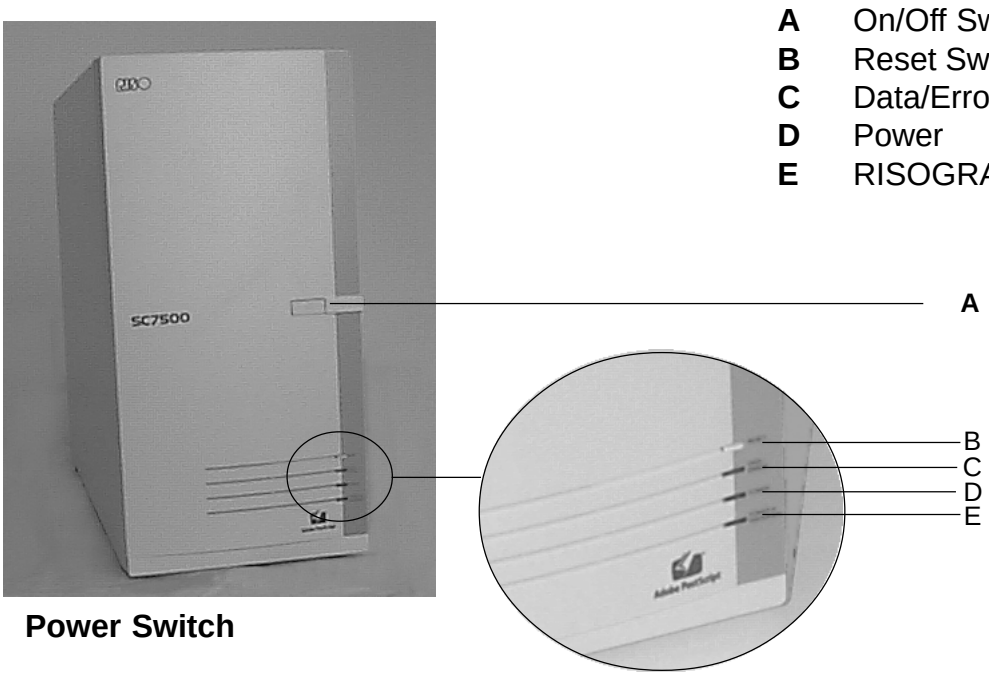
1) RJ45 LED
Illuminated when a connection is made using the RJ45 connector

2) RJ45 Port
For connection using 10baseT cabling (not supplied) to an Ethernet/EtherTalk system.

3) AUI Port
For connection using 10Base5 cabling (not supplied) to an Ethernet/EtherTalk system.

4) BNC Port
For connection using 10Base2 cabling (not supplied) to an Ethernet/EtherTalk system.

3. SC7500 FRONT PANEL



A On/Off Switch
B Reset Switch
C Data/Error
D Power
E RISOGRAPH Power

A Power Switch

Press once to switch on, press again to switch off.

When the unit is switched off all incomplete jobs or fonts downloaded to RAM are lost, but defaults and fonts downloaded to the SC7500's internal hard disk are retained.

When the unit is switched on it takes approximately 35 seconds before it is ready for use.

B Reset Switch

Used to print a test page, reset to factory defaults during startup, cancel print jobs or restart the SC7500 when pressed during normal running. See the SC7500 User Guide for more details of the use of the key.

C Data/Error LED

The data error LED indicates the status of the SC7500 during initialisation, processing of jobs, during standby and in the case of errors.

The LED has three possible colours, Red, Yellow and Green, and two flashing rates. These are combined to indicate several states.

Please see the SC7500 User Guide for a detailed list of modes for this LED.

D Power LED

This LED lights when power is supplied to the SC7500 and the unit has been switched on.

E Power of RISOGRAPH LED

The bottom LED lights when the SC7500 receives a 5V connection to the RISOGRAPH. This means the SCII cable between the SC7500 and the RISOGRAPH must be correctly connected and the RISOGRAPH must be on.